Performance Data Sheet

VSC5534BNA

General Information

Model	VSC5534BNA	**Refrigerant**	R-410A
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	10900	9400					
	Watts	1890	2060					
	Amps	7.95	9.04					
	Lb/h	133	120					
-10	Btu/h	13300	11700	10300				
	Watts	1910	2090	2330				
	Amps	7.94	9.02	10.2				
	Lb/h	160	148	137				
-5	Btu/h	15600	14100	12600	11100			
	Watts	1920	2110	2360	2670			
	Amps	7.93	8.99	10.2	11.6			
	Lb/h	187	176	166	155			
0	Btu/h	18000	16500	15000	13500	11800		
	Watts	1930	2120	2370	2680	3070		
	Amps	7.91	8.96	10.1	11.5	13.1		
	Lb/h	214	204	196	186	173		
5	Btu/h	20600	19000	17400	15900	14200		
	Watts	1920	2120	2380	2690	3070		
	Amps	7.88	8.92	10.1	11.4	13.0		
	Lb/h	242	233	226	217	205		
10	Btu/h	23200	21500	19900	18300	16500	14500	12200
	Watts	1910	2120	2380	2690	3070	3530	4060
	Amps	7.85	8.87	10.0	11.4	13.0	14.8	17.0
	Lb/h	271	263	257	249	238	223	201
15	Btu/h	26000	24300	22600	20900	19000	16900	14500
	Watts	1890	2110	2370	2690	3070	3520	4040
	Amps	7.80	8.82	9.97	11.3	12.9	14.7	16.9
	Lb/h	302	295	289	282	272	258	237
20	Btu/h	29000	27100	25400	23600	21600	19400	16800
	Watts	1870	2090	2360	2680	3060	3500	4020
	Amps	7.73	8.76	9.91	11.2	12.8	14.6	16.8
	Lb/h	334	328	322	316	307	294	274

25	Btu/h	32100	30200	28400	26400	24400	22000	19300
	Watts	1840	2070	2350	2670	3040	3480	3990
	Amps	7.66	8.70	9.84	11.2	12.7	14.5	16.6
	Lb/h	369	363	358	352	344	331	312
30	Btu/h	35600	33500	31600	29500	27300	24800	22000
	Watts	1800	2050	2330	2650	3030	3460	3960
	Amps	7.57	8.62	9.77	11.1	12.6	14.4	16.5
	Lb/h	406	400	396	391	383	371	352
35	Btu/h	39300	37100	35000	32800	30400	27800	24800
	Watts	1760	2020	2300	2630	3010	3440	3930
	Amps	7.47	8.53	9.69	11.0	12.5	14.3	16.4
	Lb/h	445	440	436	431	424	412	394
40	Btu/h	43200	41000	38700	36400	33800	31000	27900
	Watts	1710	1980	2280	2610	2980	3410	3900
	Amps	7.35	8.43	9.60	10.9	12.4	14.2	16.3
	Lb/h	488	483	480	475	468	457	439
45	Btu/h	47600	45100	42700	40200	37500	34500	31100
	Watts	1670	1940	2250	2580	2960	3380	3860
	Amps	7.21	8.31	9.50	10.8	12.3	14.1	16.2
	Lb/h	535	530	526	522	515	504	487
50	Btu/h	52300	49600	47000	44300	41400	38300	34700
	Watts	1610	1910	2220	2560	2930	3350	3830
	Amps	7.06	8.19	9.39	10.7	12.3	14.0	16.1
	Lb/h	585	581	577	573	566	555	538
55	Btu/h	57300	54500	51700	48800	45700	42300	38500
	Watts	1560	1860	2180	2530	2910	3330	3800
	Amps	6.89	8.04	9.27	10.6	12.2	13.9	16.0
	Lb/h	640	635	631	627	621	610	593

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.535025E+04	1.404493E+03	-2.030123E+00	5.410491E+02
C2	4.917584E+02	-3.702911E+01	-3.168238E-02	4.247169E+00
C3	-6.250667E+02	4.740084E+00	2.083872E-01	-9.093088E+00
C4	4.199430E+00	-2.335883E-01	-7.935516E-04	3.122921E-02
C5	5.820280E-01	7.406043E-01	8.273200E-04	1.252387E-02
C6	4.876300E+00	-8.519434E-02	-1.788797E-03	8.721036E-02
C7	3.938035E-02	8.158084E-04	-1.307267E-06	4.761041E-04
C8	-2.926013E-02	8.615394E-04	7.683546E-06	-2.140534E-04
C9	-7.118727E-03	-3.477614E-03	-6.148447E-06	4.425805E-05
C10	-1.661809E-02	1.343732E-03	9.219078E-06	-3.080982E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature